

A B S T R A C T

The resonator comprises a shell 1 a having a pole 2 held by a support rod 3, the shell having an annular edge 4 defined by an inside surface 5 and an outside surface 6 that are geometrically similar and that extend around a common axis of revolution R, the inside surface and the outside surface being offset relative to each other along the axis of revolution in such a manner that the shell presents a thickness E along the annular edge 4 that is greater than the thickness  $e$  that it presents in the vicinity of the pole 2.